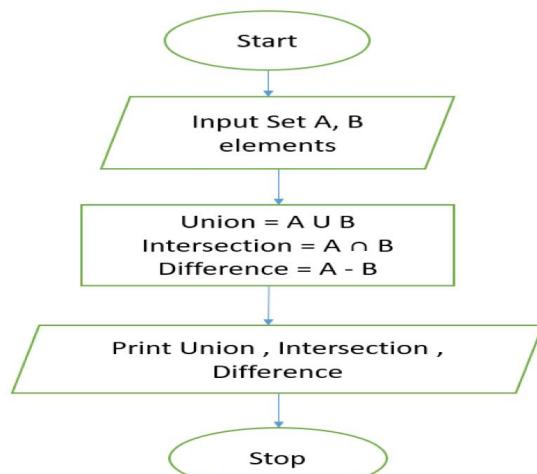


PROBLEM 4.1.1

Flowchart



Algorithm

Start

Read space-separated integers for **Set A**.

Read space-separated integers for **Set B**.

Convert the inputs into two sets: Set A and Set B.

Find the **Union**, Intersection and Difference of Set A and Set B.

Display the **Union**, Intersection and Difference.

Stop

The screenshot shows the CodeTantra IDE interface. The title bar says 'CODETANTRA' and 'Home'. The user is logged in as 'nirmayee.kadam.batch2025@sitnagpur.siu.edu.in'. The top navigation bar includes 'Support' and 'Logout'.

The main area shows a code editor with a file named 'setoperat...'. The code is as follows:

```
1 set_a=set(map(int, input("Set A: ").split()))
2 set_b=set(map(int, input("Set B: ").split()))
3
4 union_set = set_a | set_b
5 intersection_set = set_a & set_b
6 difference_set = set_a - set_b
```

Below the code editor is a terminal window showing the execution results:

```
Set A: 1 2 3 4
Set B: 4 5 6 7
Union: {1, 2, 3, 4, 5, 6, 7}
Intersection: {4}
Difference: {1, 2, 3}
==== YOUR PROGRAM HAS ENDED ===
```

On the right side of the interface, there are 'Explorer', 'Debugger', and other tool buttons.